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Claims

- 1. A highly efficient fluorescent material from the class of the silicide nitrides having a cation and the basic formula $A_x Si_y N_z$, characterized in that Sr is used as cation, the silicide nitride being deped with trivalent Ce which acts as activator.
- 2. The fluorescent material as claimed in claim 1, characterized in that the fluorescent material is $Sr_sSi_sN_rCe^{3\tau}$ or $SrSi_rN_{10}:Ce^{3\tau}$.
- 3. The fluorescent material as claimed in claim 1, characterized in that the proportion of the Ce amounts to between 1 and 10 molto of the Sr.
 - 4. The fluorescent material as claimed in claim 1, characterized in that part of the Sr, in particular up to 30 mol³, is replaced by Ba and/or Ca.
- 5. A light source having a primary radiation source, A: which emits radiation in the shortwave region of the optical spectral region in the wavelength region of 370 of 430 nm, this radiation being converted wholly or partially into secondary radiation of longer wavelength in the visible
- material as claimed in one of the preceding glaims.
 - 6. The light source as claimed in claim 5, characterized in that a light-using diode based on InGaN is used as primary radiation source.
 - 7. The light source as claimed in claim 5, characterized in that a portion of the primary radiation continues to be converted into radiation of longer wavelength by means if a second

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fluorescent material, the first and second fluorescent materials being, in particular, suitably selected and mixed in order to generate white light.

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8. The light source as claimed in claim 7, characterized in that a portion of the primary radiation continues to be converted into radiation of longer wavelength by means of a third fluorescent material, this third fluorescent material emitting in the red spectral region.